

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/001779

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 H02H 7/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H02H, H01M, H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Korean patents and application for inventions since 1975
 Korean Utility models and application for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6486637 B1 (MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD.) 26 Nov. 2002. Abstract, Claims 1 and 2, Fig.1	1, 2
A	US 5600550 A (PROGRESSIVE DYNAMICS, INC.) 4 Feb. 1997 See entire document	1, 2
A	US 6009369 A (NARTRON CORPORATION) 16 Sep. 1997 See entire document	1, 2
A	KR 184799 A (MANDO MECHANICS CO.LTD.) 15 MAY 1999 page 2 line 15 - page 3 line 4, Claim 1, Fig. 1	1



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search	Date of mailing of the international search report
26 OCTOBER 2004 (26.10.2004)	27 OCTOBER 2004 (27.10.2004)
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer JEON, Yong Hai Telephone No. 82-42-481-5657

